

## SEQUENCE LISTING

<110> Morinaga Milk Industry Co., Ltd.

<120> Protease Inhibitor

<130> FP1480P1618

<150>JP 02/347801

<151> 2002-11-29

<150>JP 03/147035

<151> 2003-05-23

<160> 2

<170> PatentIn Ver. 2.1

<210> 1

<211> 226

<212> PRT

<213> Homo Sapiens

<220>

<221> sig\_peptide

<222> (1)...(15)

<223> casein

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Met Lys Val Leu Ile Leu Ala Cys Leu Val Ala Leu Ala Leu Ala Arg  
1                      5                      10                      15

Glu Thr Ile Glu Ser Leu Ser Ser Ser Glu Glu Ser Ile Thr Glu Tyr  
20                      25                      30

Lys Gln Lys Val Glu Lys Val Lys His Glu Asp Gln Gln Gln Gly Glu  
35                      40                      45

Asp Glu His Gln Asp Lys Ile Tyr Pro Ser Phe Gln Pro Gln Pro Leu  
 50 55 60

Ile Tyr Pro Phe Val Glu Pro Ile Pro Tyr Gly Phe Leu Pro Gln Asn  
 65 70 75 80

Ile Leu Pro Leu Ala Gln Pro Ala Val Val Leu Pro Val Pro Gln Pro  
 85 90 95

Glu Ile Met Glu Val Pro Lys Ala Lys Asp Thr Val Tyr Thr Lys Gly  
 100 105 110

Arg Val Met Pro Val Leu Lys Ser Pro Thr Ile Pro Phe Phe Asp Pro  
 115 120 125

Gln Ile Pro Lys Leu Thr Asp Leu Glu Asn Leu His Leu Pro Leu Pro  
 130 135 140

Leu Leu Gln Pro Leu Met Gln Gln Val Pro Gln Pro Ile Pro Gln Thr  
 145 150 155 160

Leu Ala Leu Pro Pro Gln Pro Leu Trp Ser Val Pro Gln Pro Lys Val  
 165 170 175

Leu Pro Ile Pro Gln Gln Val Val Pro Tyr Pro Gln Arg Ala Val Pro  
 180 185 190

Val Gln Ala Leu Leu Leu Asn Gln Glu Leu Leu Leu Asn Pro Thr His  
 195 200 205

Gln Ile Tyr Pro Val Thr Gln Pro Leu Ala Pro Val His Asn Pro Ile  
 210 215 220

Ser Val  
 225

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<212> PRT

<213> Bos taurus

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<222> (1)···(15)

<223> casein

<400> 2

Met Lys Val Leu Ile Leu Ala Cys Leu Val Ala Leu Ala Leu Ala Arg  
1                   5                   10                   15

Glu Leu Glu Glu Leu Asn Val Pro Gly Glu Ile Val Glu Ser Leu Ser  
                  20                   25                   30

Ser Ser Glu Glu Ser Ile Thr Arg Ile Asn Lys Lys Ile Glu Lys Phe  
                  35                   40                   45

Gln Ser Glu Glu Gln Gln Gln Thr Glu Asp Glu Leu Gln Asp Lys Ile  
                  50                   55                   60

His Pro Phe Ala Gln Thr Gln Ser Leu Val Tyr Pro Phe Pro Gly Pro  
65                   70                   75                   80

Ile Pro Asn Ser Leu Pro Gln Asn Ile Pro Pro Leu Thr Gln Thr Pro  
                  85                   90                   95

Val Val Val Pro Pro Phe Leu Gln Pro Glu Val Met Gly Val Ser Lys  
                  100                   105                   110

Val Lys Glu Ala Met Ala Pro Lys His Lys Glu Met Pro Phe Pro Lys  
                  115                   120                   125

Tyr Pro Val Glu Pro Phe Thr Glu Ser Gln Ser Leu Thr Leu Thr Asp  
                  130                   135                   140

Val Glu Asn Leu His Leu Pro Leu Pro Leu Leu Gln Ser Trp Met His  
145                   150                   155                   160

Gln Pro His Gln Pro Leu Pro Pro Thr Val Met Phe Pro Pro Gln Ser  
165 170 175

Val Leu Ser Leu Ser Gln Ser Lys Val Leu Pro Val Pro Gln Lys Ala  
180 185 190

Val Pro Tyr Pro Gln Arg Asp Met Pro Ile Gln Ala Phe Leu Leu Tyr  
195 200 205

Gln Glu Pro Val Leu Gly Pro Val Arg Gly Pro Phe Pro Ile Ile Val  
210 215 220